

**PROCESS FOR PRODUCTION OF HIGH-ISOPRENE BUTYL RUBBER****ABSTRACT**

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The present invention relates to a process for producing polymers comprising repeating units derived from at least one isoolefin monomer, at least one multiolefin monomer and optionally further copolymerizable monomers in the presence of at least one organic nitro compound and  $\text{AlCl}_3$ /water wherein the process is conducted in the  
10 absence of compounds selected from the group consisting of vanadium compounds, zirconium halogenid, hafnium halogenides.

Preferably the polymers have a multiolefin content of greater than 2.5 mol%, and a molecular weight  $M_w$  of greater than 240 kg/mol.